

Notice of References Cited

Application/Control No.

Applicant(s)/
Reexamination

SEUL, MICHAEL

Examiner

Art Unit

Page 1

U.S. PATENT DOCUMENTS

*	Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
A	US-5,747,349	05-1998	van den Engh et al.	436
B	US-5,900,481	05-1999	Lough et al.	536
C	US-6,133,436	10-2000	Koster et al.	536
D	US-6,084,991	07-2000	Sampas	382
E	US-5,442,246	06-1995	Koopal et al.	435
F	US-			
G	US-			
H	US-			
I	US-			
J	US-			
K	US-			
L	US-			
M	US-			

FOREIGN PATENT DOCUMENTS

*	Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
N	WO 99/18434	04/15/99	PCT		
O	WO 99/19515	04/24/99	PCT		
P					
Q					
R					
S					
T					

NON-PATENT DOCUMENTS

Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)

*	U	
	V	
	W	
	X	

A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)

Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

FORM PTO-1449

INFORMATION DISCLOSURE CITATION

Attorney Docket:	Serial No.:
Applicant: Seul et al.	
Filing Date: 10/17/00	Group Art Unit: 1

U.S. PATENT DOCUMENTS

Examiner Initial	Patent Number	Publication Date	Name	Class	Sub-Class	Filing Date
	5,281,370	01/25/94	Asher et al.			
	5,516,635	05/15/96	Ekins et al.			
	5,518,883	05/21/96	Soini			
	5,415,835	05/16/95	Brueck			
	5,604,097	02/18/97	Brenner			
	5,800,992	09/01/98	Fodor			
	6,023,540	02/08/00	Walt et al.			
	6,327,410	12/04/01	Walt et al.			
	6,266,459	07/24/01	Walt et al.			
	6,429,027	08/06/02	Chee et al.			

FOREIGN PATENT DOCUMENTS

Examiner Initial	Patent Number	Publication Date	Country	Class	Sub-Class	Translation
	WO 93/02360	02/04/93	PCT			<input type="checkbox"/> Yes <input type="checkbox"/> No
	WO 96/03212	02/08/96	PCT			<input type="checkbox"/> Yes <input type="checkbox"/> No
	1,248,873	01/17/89	Canada			<input type="checkbox"/> Yes <input type="checkbox"/> No
	WO 93/06121	04/01/93	PCT			<input type="checkbox"/> Yes <input type="checkbox"/> No
						<input type="checkbox"/> Yes <input type="checkbox"/> No

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Papers, etc.)

Materials from Freedom of Information Act pertaining to David R. Walt

Examiner	Date Considered
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP §609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.	

FORM PTO-1449 (REV. 7-80)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE								ATTY. DOCKET NO.: _____		SERIAL NO.: _____			
LIST OF PRIOR ART CITED BY APPLICANT (Use several sheets if necessary)												APPLICANT(S): SEUL, Michael			
												FILING DATE: _____		GROUP: _____	
U.S. PATENT DOCUMENTS															
EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE		
	AA	4	4	9	9	0	5	2	2/12/85	Fulwyler	422	52	8/30/82		
	AB	4	8	4	7	5	4	4	3/3/87	Nicoli et al.	436	518	6/25/85		
	AC	4	8	2	2	7	4	8	4/18/89	Walt	436	528	6/25/86		
	AD	4	9	8	4	3	7	3	2/19/91	Stavrianopoulos et al.	435	6	7/20/89		
	AE	5	0	0	2	8	6	7	3/26/91	Macevicz	435	6	10/24/88		
	AF	5	0	2	8	5	4	5	7/2/91	Soini	436	501	6/9/88		
	AG	5	1	0	5	3	0	5	4/14/92	Betzig	359	368	1/10/91		
	AH	5	1	1	4	8	6	4	5/19/92	Walt	436	528	9/19/89		
	AI	5	1	3	2	2	4	2	7/21/92	Cheung	436	501	11/13/89		
	AJ	5	1	3	2	0	9	7	7/21/92	Van Deusen et al.	422	82,09	9/4/90		
	AK	5	1	4	3	8	5	3	8/1/92	Walt	436	501	2/2/89		
FOREIGN PATENT DOCUMENTS															
		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION		
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	AL	0	2	8	8	7	6	4	6/8/88	EP	C120	1/68		X	
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	AN	0	7	2	3	1	4	8	7/24/96	EP	G01N	21/64		X	
	AO	8	9	1	1	1	0	1	11/16/89	PCT	G01N	33/546		X	
	AP	9	3	0	2	3	6	0	2/4/93	PCT	G01N	33/536		X	
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)															
	AQ	Peterson, et al. "Fiber optic pH probe for physiological use," Anal. Chem. Vol. 52, 864-869 (1980)													
	AR	Peterson, et al. "Fiber-Optic Sensors for Biomedical Applications," Science, 13: 123-127 (1984).													
	AS	Fuh, et al., "Single Fibre Optic Fluorescence pH Probe," Analyst, 112: 1159-1163 (1987).													
EXAMINER										DATE CONSIDERED					

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449 (REV. 7-80)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE								ATTY. DOCKET NO.: _____		SERIAL NO.: _____			
LIST OF PRIOR ART CITED BY APPLICANT (Use several sheets if necessary)												APPLICANT(S): SEUL, Michael			
												FILING DATE: 11/16/93		GROUP: _____	
U.S. PATENT DOCUMENTS															
EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE		
	BA	5	1	9	4	3	0	0	3/16/93	Cheung	427	213.31	11/8/89		
	BB	5	2	4	4	8	1	3	9/14/93	Walt et al.	436	172	4/20/92		
	BC	5	2	4	4	6	3	6	9/14/93	Walt et al.	422	82.07	1/25/91		
	BD	5	2	5	0	2	6	4	10/5/93	Walt et al.	422	82.07	12/21/92		
	BE	5	2	5	2	4	9	4	10/12/93	Walt	436	528	3/30/92		
	BF	5	2	5	4	4	7	7	10/19/93	Walt	436	172	9/19/91		
	BG	5	2	9	8	7	4	1	3/29/94	Walt et al.	250	227.23	1/13/93		
	BH	5	3	0	6	6	1	8	4/26/94	Prober et al.	435	6	1/16/92		
	BI	5	3	2	0	8	1	4	6/14/94	Walt et al.	422	82.07	11/25/92		
	BJ	5	3	8	2	6	5	3	11/8/94	Carr et al.	436	165	5/6/92		
	BK	5	4	0	5	7	8	4	4/11/95	Van Hoegaerden	436	523	2/25/93		
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		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION		
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	BL	9	3	0	6	1	2	1	4/1/93	PCT	C07H	21/00		X	
	BM	9	3	2	4	5	1	7	12/9/93	PCT	C07K			X	
	BN	9	7	1	4	0	2	8	4/17/97	PCT	G01N	15/10		X	
	BO														
	BP														
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)															
	BQ	Barnard, et al., "A fibre-optic chemical sensor with discrete sensing sites," Nature, vol. 353: 338-340 (1991).													
	BR	Campion, et al. "Colored and Fluorescent Solid Supports," Innovation and Perspectives in Solid-Phase Synthesis . Ed: E. Birmingham (Mayflower, London), pp. 469-472 (1994).													
	BS	Pope, "Fiber optic chemical microsensors employing optically active silica microspheres," SPIE, vol. 2388 : 245-256 (1995).													
EXAMINER										DATE CONSIDERED					
<p>*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</p>															

FORM PTO-1440
(REV. 7-80)U. S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

LIST OF PRIOR ART CITED BY APPLICANT

(Use several sheets if necessary)

APPL. JOCKET NO. 14

SERIAL NO.:

APPLICANT(S): SEUL, Michael

FILING DATE: October 7, 2001

GROUP: 111

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	CA	5	4	8	0	7	2	3	1/2/98	Kanner et al.	428	441	5/17/94
	CB	5	8	1	4	5	2	4	1/20/98	Wahl et al.	436	518	12/14/95
	CC	5	4	8	8	8	8	1	3/6/98	Peppe	250	227.21	1/3/94
	CD	5	5	1	2	4	8	0	4/30/98	Wahl et al.	436	171	8/11/94
	CE	5	5	8	6	3	2	4	10/16/98	Birrell et al.	435	8	4/13/94
	CF	5	5	6	7	8	2	1	10/22/98	Lohmen	436	518	11/5/93
	CG	5	8	3	3	7	2	4	5/27/97	Kliewer et al.	358	445	8/29/95
	CH	5	8	3	3	9	7	5	5/27/97	Wahl et al.	385	116	11/29/95
	CI	5	8	5	0	4	8	1	7/22/97	Lohmen et al.	530	334	6/19/91
	CJ	5	8	5	2	0	5	1	7/29/97	Meadow	428	403	1/25/95
	CK	5	8	7	4	8	9	1	10/7/97	Zolling et al.	435	7.92	3/30/95

FOREIGN PATENT DOCUMENTS

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CL												YES
CM												
CN												
CO												
CP												

OTHER PRIOR ART CITED BY APPLICANT (Continued on back page if necessary)

FORM PTO-1449 (REV. 7-80)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE							ATTY. DOCKET NO.: 40-11-014		SERIAL NO.:			
LIST OF PRIOR ART CITED BY APPLICANT (Use several sheets if necessary)									APPLICANT(S): SEUL, Michael					
									FILING DATE: October 17, 2000		GROUP: 1			
U.S. PATENT DOCUMENTS														
*EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
	DA	5	6	9	0	8	9	4	11/25/97	Pinkel et al.	422	68.1	5/23/95	
	DB	5	7	0	0	8	9	7	12/23/97	Klainer et al.	528	15	5/30/95	
	DC	5	7	7	9	9	7	6	7/14/98	Leland et al.	422	52	6/5/95	
	DD	5	9	3	9	0	2	1	8/17/99	Hansen et al.	422	55	1/23/97	
	DE	5	9	6	1	9	2	3	10/5/99	Nova et al.	422	68.1	9/30/96	
	DF	5	9	6	5	4	5	2	10/12/99	Kovacs	436	149	7/9/96	
	DG	6	0	4	8	6	9	0	4/11/00	Heller et al.	435	6	5/14/97	
	DH	6	0	9	0	5	4	5	7/18/00	Wohlstadter et al.	435	6	3/6/97	
	DI	6	0	9	0	9	1	2	7/18/00	Lebl et al.	530	300	11/23/98	
	DJ	6	2	0	0	7	3	7	3/13/01	Walt et al.	430	320	8/24/95	
	DK													
FOREIGN PATENT DOCUMENTS														
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	DL													
	DM													
	DN													
	DO													
	DP													
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)														
	DO	Egner, et al., "Tagging in combinatorial chemistry: the use of coloured and fluorescent beads," Chem. Commun. pp. 735-736 (1997)												
	DR	Fulton, et al., "Advanced multiplexed analysis with the FlowMetrix system," Clinical Chemistry, vol. 43:9 , pp. 1749-1756 (1997).												
	DS	Scott et al., "Properties of fluorophores on solid phase resins; implications for screening, encoding and reaction monitoring," Bioorganic & Medicinal Chemistry Letters, 7:12, pp. 1567-1572 (1997).												
EXAMINER									DATE CONSIDERED					
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.														

FORM PTO-1449 (REV. 7-80)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO.: 14-1054-CR	SERIAL NO.: 01-1054-1
LIST OF PRIOR ART CITED BY APPLICANT (Use several sheets if necessary)		APPLICANT(S): SEUL, Michael	
		FILING DATE: 10/10/98	GROUP: 104

U.S. PATENT DOCUMENTS							
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
EA							
EB							
EC							
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EH							
EI							
EJ							
EK							

FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
							YES NO
EL							
EM							
EN							
EO							
EP							

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)		
EQ	Healey et al., "Fiberoptic DNA sensor array capable of detecting point mutations," Analytical Biochemistry, vol. 251, pp. 270-279 (1997).	
ER	"Microsphere Selection Guide," Bangs Laboratories, Inc. (Fisher, IN) (September 1998)	
ES		

EXAMINER	DATE CONSIDERED
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449 (REV. 7-80)			U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE			ATTY. DOCKET NO.: 101-1008 CO148		SERIAL NO.: 35,372	
LIST OF PRIOR ART CITED BY APPLICANT (Use several sheets if necessary)			APPLICANT(S): SEUL, Michael						
			FILING DATE: October 17, 2000			GROUP: 11			
U.S. PATENT DOCUMENTS									
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	BB								
	BC								
	BD								
	BE								
	BF								
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	BG								YES NO
	BH								
	BI								
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)									
	BJ	Trau et al., "Field-Induced Layering of Colloidal Crystals," <i>Science</i> , vol. 272 : 706-709 (1996)							
	BK	Seul et al., "Domain Shapes and Patterns: The Phenomenology of modulated Phases," <i>Science</i> , vol. 267 : 476-483 (1995)							
	BL	Schena et al. "Quantitative Monitoring of Gene Expression Patterns with a Complementary DNA Microarray," <i>Science</i> , vol. 270 : 467-470 (1995)							
	BM	Haab et al. "Single Molecule Fluorescence Burst Detection of DNA Fragments Separated by Capillary Electrophoresis," <i>Analytical Chemistry</i> , vol. 67 (No. 18) : 3253-3256 (1995)							
	BN	Richetti, et al., <i>J. Physique Lettr.</i> , vol. 45 : L-1137 to L-1143 (1984)							
	BO	Sze, "MIS Diode and Charge-Coupled Device," <i>The Physics of Semiconductors</i> , Chapter 7, pp. 362-430 (2 nd Edition) (Wiley Interscience 1981)							
	BP								
	BQ								
	BR								
EXAMINER						DATE CONSIDERED			
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.									

FORM PTO-1449 (REV. 7-80)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE							ATTY. DOCKET NO.:		SERIAL NO.:			
									APPLICANT(S): SEUL, Michael					
									FILING DATE:		GROUP:			
U.S. PATENT DOCUMENTS														
*EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
	AA	3	9	9	8	5	2	5	12/21/76	Giglia	350	160	08/21/75	
	AB	4	0	7	5	0	1	3	02/21/78	Ward et al.	96	1.5	09/13/76	
	AC	4	4	5	6	5	1	3	06/26/84	Kawai et al.	204	180	08/25/82	
	AD	4	5	7	5	4	0	7	03/11/88	Diller	204	67	10/24/84	
	AE	4	5	9	1	5	5	0	05/27/88	Hafeman et al.	435	4	04/05/84	
	AF	5	4	4	4	3	3	0	08/22/95	Leventis et al.	313	506	02/18/93	
	AG	5	5	8	7	1	2	8	12/24/96	Wilding et al.	422	50	11/14/94	
	AH	5	4	9	8	3	9	2	03/12/96	Wilding et al.	422	68.1	09/19/94	
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FOREIGN PATENT DOCUMENTS														
		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
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	AL	9	8	0	4	5	4	7	02/15/96	PCT	G01N	27/00		X
	AM													
	AN													
	AO													
	AP													
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)														
	AR	Yeh, et al., "Assembly of ordered colloidal aggregates by electric-field-induced fluid flow," <i>Nature</i> , vol. 386.6: 57-59 (1997)												
	AS	Giersig et al., "Formation of ordered two-dimensional gold colloid lattices by electrophoretic deposition," <i>J. Phys. Chem.</i> , vol. 97: 6334-6336												
	AT	Seul et al., "Scale transformation of magnetic bubble arrays: coupling of topological disorder and polydispersity," <i>Science</i> , vol. 262 : 558 - 560 (1993)												
EXAMINER										DATE CONSIDERED				
<p>*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</p>														

FORM PTO-1449
(REV. 7-80)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.: 414

SERIAL NO.: 08/666,710

LIST OF PRIOR ART CITED BY APPLICANT

(Use several sheets if necessary)

APPLICANT(S): SEUL, Michael

FILING DATE: 01/14/97

GROUP: 1041

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER								DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	4	7	1	7	6	5	5		01/05/88	Fulwyler	435	7	10/15/84
	AB	5	5	7	3	9	0	9		11/12/96	Singer et al.	435	6	05/20/94
	AC	5	5	8	5	0	6	9		12/17/96	Zanzucchi et al.	422	100	11/10/94
	AD	5	5	8	3	8	3	8		01/14/97	Zanzucchi et al.	435	6	05/31/95
	AE	5	7	2	3	2	1	8		03/03/98	Haugland et al.	428	402	06/07/95
	AF	5	7	4	4	3	0	5		04/28/98	Fodor et al.	435	6	06/06/95
	AG	5	8	0	7	7	5	5		09/15/98	Ekins	438	518	05/23/95
	AH	5	8	3	7	5	5	1		11/17/98	Ekins	438	518	12/23/94
	AI	5	8	7	4	2	1	8		02/23/99	Rava et al.	435	6	04/09/96
	AJ	5	9	8	9	8	3	5		11/23/99	Dunlay et al.	435	7.2	02/27/97
	AK	6	0	2	3	5	4	0		02/08/00	Walt et al.	385	12	03/14/97

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER								DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
														YES	NO
	AL	9	5	1	2	8	0	8		05/11/95	PCT	G01N	21/00		X
	AM	9	6	0	7	9	1	7		03/14/98	PCT	G01N	35/00		X
	AN	9	7	4	0	3	8	3		10/30/97	PCT	G01N	33/543		X
	AO	9	8	0	6	0	0	7		02/12/98	PCT	G03F	7/00		X
	AP	9	8	5	3	3	0	0		11/26/98	PCT	G01N	21/00		X

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AR Micheletto et al., *Langmuir*, vol. 11, 3333-3336 (1995)AS Nagayama et al., *Phase Transitions*, vol. 45, 185-203 (1993)

AT

EXAMINER

DATE CONSIDERED

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PTO/SB/08A (08-00)

Approved for use through 10/31/2002, OMB 0651-0031
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

SHEET OF

Complete if Known

Application Number:

Filing Date:

First Named Inventor: M. Seul, et al.

Group Art Unit:

Examiner Name:

Attorney Docket Number:

Examiner Initials	U.S. Documents		U.S. Patent Document Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
	Number			
	6,083,763		Balch	7/4/2000
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Examiner Initials	Foreign Patent Documents			Date of Publication of Cited Document MM-DD-YYYY	Translation
	Office	Number	Kind Code (if known)		
		WO 00/04372		Anslyn, et al.	1/27/2000
		WO 99/60170		Baier, et al.	11/25/1999
		WO 98/40726		Walt, et al.	2/8/2000
		WO 00/03004		Fechteler, et al.	1/20/2000
		WO 00/75373		Walt, et al.	12/14/2000

Examiner Signature	Date Considered
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.